TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 1 PROJECT OWNER AND PROJECT ENGINEER

Project Owner KING COUNTY
Phone (206) 296-3708
Address 201 S. JACKSON ST.
SEATTLE, WA 98104-3856
Project Engineer JIM RHODES
Company HNTB
Phone (425) 455-3555

Part 2 PROJECT LOCATION AND DESCRIPTION

Project Name SOUTH PARK BRIDGE REPLACEMENT
DDES Permit #
Location Township 24
Range 4 E.
Section 32
Site Address BRIDGE #3179 DUWAMISH RIVER

Part 3 TYPE OF PERMIT APPLICATION

- ☐ Landuse Services Subdivison / Short Subd. / UPD
- ☐ Building Services M/F / Commerical / SFR
- ☒ Clearing and Grading
- ☒ Right-of-Way Use
- ☒ Other BRIDGE REPLACEMENT

Part 4 OTHER REVIEWS AND PERMITS

- ☒ DFW HPA
- ☒ COE 404
- ☐ DOE Dam Safety
- ☒ FEMA Floodplain
- ☐ COE Wetlands
- ☒ Other SEE PERMIT LIST IN REPORT
- ☒ Shoreline Management
- ☒ Structural Rockery/Vault/
- ☒ ESA Section 7

Part 5 PLAN AND REPORT INFORMATION

Technical Information Report		Site Improvement Plan (Engr. Plans)	
Type of Drainage Review (circle):	(Full) / Targeted / Large Site	Type (circle one):	(Full) / Modified / Small Site
Date (include revision dates):	JUNE 2009	Date (include revision dates):	JUNE 2009
Date of Final:		Date of Final:	

Part 6 ADJUSTMENT APPROVALS

Type (circle one): Standard / Complex / Preapplication / Experimental / Blanket

Description: (include conditions in TIR Section 2)

Date of Approval:

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 7 MONITORING REQUIREMENTS

Monitoring Required: (Yes) / No

Start Date: _____

Completion Date: _____

Describe: MONITOR TESC, CONTAMINATED SOILS REMOVAL, CONTAMINATED WATER COLLECTION/ TREATMENT, pH, etc.., POST PROJECT MAINTENANCE REQ.

Part 8 SITE COMMUNITY AND DRAINAGE BASIN

Community Plan : SOUTH PARK BRIDGE REPLACEMENT

Special District Overlays: MATCH CITY OF SEATTLE AT S. CLOVERDALE ST.

Drainage Basin: DUWAMISH RIVER

Stormwater Requirements: BASIC WATER QUALITY, FLOW CONTROL EXEMPT

Part 9 ONSITE AND ADJACENT SENSITIVE AREAS

- ☒ River/Stream DUWAMISH WATERWAY
- ☐ Lake _____
- ☐ Wetlands _____
- ☐ Closed Depression _____
- ☒ Floodplain LOCAL REGULATED FLOODWAY
- ☒ Other DUWAMISH WATERWAY _____

- ☒ Steep Slope SCOUR ANALYSIS
- ☒ Erosion Hazard SLOPE PROTECTION
- ☐ Landslide Hazard _____
- ☐ Coal Mine Hazard _____
- ☒ Seismic Hazard SEISMIC ANALYSIS
- ☒ Habitat Protection SHORE RESTORATION
- ☐ _____

Part 10 SOILS

Soil Type	Slopes	Erosion Potential
VASHON TILL	FLAT SITE	LITTLE
TILL RIVER BANK	3:1 (ARMORED)	REQ. ARMOR
SAND/CLAY 20' DEEP	NONE	NONE

- ☐ High Groundwater Table (within 5 feet)
- ☒ Other POTENTIALLY CONTAMINATED AREAS
- ☐ Sole Source Aquifer
- ☐ Seeps/Springs

☐ Additional Sheets Attached

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 11 DRAINAGE DESIGN LIMITATIONS

REFERENCE	LIMITATION / SITE CONSTRAINT
☒ Core 2 – Offsite Analysis	CONNECTIONS TO COMBINED SEWER SYSTEM REQUIRED
☒ Sensitive/Critical Areas	OUTFALL DESIGN PER BA.
☐ SEPA	
☒ Other EROSION CONTROL/DRAINAGE	PER BA RECOMENDATIONS
☒ OUTFALLS MUST BE AT OR	ABOVE EL. 8.64 NAVD88

☐ Additional Sheets Attached

Part 12 TIR SUMMARY SHEET (provide one TIR Summary Sheet per Threshold Discharge Area)

Threshold Discharge Area: (name or description) SOUTH BASIN

Core Requirements (all 8 apply)

Discharge at Natural Location	Number of Natural Discharge Locations: 1 (DUWAMISH RIVER)
Offsite Analysis	Level: (1) / 2 / 3 dated: DEC 1, 2008
Flow Control (incl. facility summary sheet)	Level: 1 / 2 / 3 or Exemption Number EXEMPT Small Site BMPs
Conveyance System	Spill containment located at: RAIN GARDEN INLET CATCH BASIN STRUCTURE
Erosion and Sediment Control	ESC Site Supervisor: Contact Phone: After Hours Phone:
Maintenance and Operation	Responsibility: Private / (Public) If Private, Maintenance Log Required: Yes / No
Financial Guarantees and Liability	Provided: Yes / (No)
Water Quality (include facility summary sheet)	Type: (Basic) / Sens. Lake / Enhanced Basicm / Bog or Exemption No. Landscape Management Plan: Yes / No

Special Requirements (as applicable)

Area Specific Drainage Requirements	Type: CDA / SDO / MDP / BP / LMP / Shared Fac. / (None) Name:
Floodplain/Floodway Delineation	Type: Major / Minor / Exemption / None 100-year Base Flood Elevation (or range): EL. = 12.31 Datum: NAVD 88
Flood Protection Facilities	Describe: HOWARD HANSON DAM REGULATES FLOWS
Source Control (comm./industrial landuse)	Describe landuse: BRIDGE / ROADWAY Describe any structural controls: N/A

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Oil Control	High-use Site: Yes / (No) Treatment BMP: _____ Maintenance Agreement: Yes / (No) with whom? COUNTY FORCES
Other Drainage Structures	
Describe: RAIN GARDENS, CATCH BASIN STRUCTURE, JAIL HOUSE WEIR OUTLET, EMERGENCY OUTFALL STRUCTURE, NEW OUTFALL PIPE, RIVER OUTFALL, DOWN-TURNED ELBOWS	

Part 13 EROSION AND SEDIMENT CONTROL REQUIREMENTS

MINIMUM ESC REQUIREMENTS DURING CONSTRUCTION	MINIMUM ESC REQUIREMENTS AFTER CONSTRUCTION
☒ Clearing Limits	☒ Stabilize Exposed Surfaces
☒ Cover Measures	☒ Remove and Restore Temporary ESC Facilities
☒ Perimeter Protection	☒ Clean and Remove All Silt and Debris Ensure Operation of Permanent Facilities
☒ Traffic Area Stabilization	☐ Flag Limits of SAO and open space preservation areas
☒ Sediment Retention	☐ Other _____
☒ Surface Water Control	
☒ Dust Control	
☒ Construction Sequence	

Part 14 STORMWATER FACILITY DESCRIPTIONS (Note: Include Facility Summary and Sketch)

Flow Control	Type/Description	Water Quality	Type/Description
☐ Detention	_____	☐ Biofiltration	_____
☒ Infiltration	RAIN GARDENS	☐ Wetpool	_____
☐ Regional Facility	_____	☒ Media Filtration	RAIN GARDENS
☐ Shared Facility	_____	☒ Oil Control	DOWN-TURNED ELBOWS
☐ Small Site BMPs	_____	☒ Spill Control	DOWN-TURNED ELBOWS
☒ Other	FLOW CONTROL EXEMPT	☐ Small Site BMPs	_____
		☐ Other	_____

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 15 EASEMENTS/TRACTS		Part 16 STRUCTURAL ANALYSIS
☒ Drainage Easement		☐ Cast in Place Vault
☒ Access Easement		☐ Retaining Wall
☐ Native Growth Protection Covenant		☐ Rockery > 4' High
☐ Tract		☐ Structural on Steep Slope
☐ Other		☐ Other

Part 17 SIGNATURE OF PROFESSIONAL ENGINEER

I, or a civil engineer under my supervision, have visited the site. Actual site conditions as observed were incorporated into this worksheet and the attached Technical Information Report. To the best of my knowledge the information provided here is accurate.

James A. Rhodes 10/01/2009

Signed/Date

STORMWATER FACILITY SUMMARY SHEET DDES Permit Number 1

(provide one Stormwater Facility Summary Sheet per *Natural Discharge Location*)

Overview:

Project Name SOUTH PARK BRIDGE REPLACEMENT Date OCT. 2009

Downstream Drainage Basins

Major Basin Name DUWAMISH RIVER

Immediate Basin Name DUWAMISH RIVER

Flow Control:

Flow Control Facility Name/Number FLOW CONTROL EXEMPT

Facility Location BOAT ACCESS ROAD RAIN GARDEN

If none,

Flow control provided in regional/shared facility (give location) N/A

No flow control required N/A Exemption number N/A

General Facility Information:

Type/Number of detention facilities:

Ø ponds
Ø vaults
Ø tanks

Type/Number of infiltration facilities:

Ø ponds
Ø tanks
Ø trenches

Control Structure Location

UPSTREAM OF RAIN GARDEN

Type of Control Structure CB W/ DOWN-TURNED ELBOW Number of Orifices/Restrictions 1

Size of Orifice/Restriction: No. 1 NO ORIFICE (ALL FLOWS GO THROUGH RAIN GARDENS)

No. 2 N/A

No. 3 N/A

No. 4 N/A

Flow Control Performance Standard EXEMPT

Live Storage Volume TEMPORARY STORAGE = 6,837 CF Depth 1.00' MAX. Volume Factor of Safety 17,190 CF 17,190 ÷ 6837 = FS OF 3

Number of Acres Served 2.35 ACRES

Number of Lots N/A – RIGHT OF WAY

Dam Safety Regulations (Washington State Department of Ecology)

Reservoir Volume above natural grade Ø

Depth of Reservoir above natural grade Ø

Facility Summary Sheet Sketch

All detention, infiltration and water quality facilities must include a detailed sketch. (11"x17" reduced size plan sheets may be used)

SEE ATTACHED PLANS

Water Quality:

Type/Number of water quality facilities/BMPs:

_____ biofiltration swale (regular/wet/ or continuous inflow)

_____ combined detention/wetpond (wetpond portion basic or large)

_____ combined detention/wetvault

_____ filter strip

_____ flow dispersion

_____ farm management plan

_____ landscape management plan

_____ oil/water separator (baffle or coalescing plate)

Liner?_____

_____ sand filter (basic or large)

_____ sand filter, linear (basic or large)

_____ sand filter vault (basic or large)

sand bed depth_____ (inches)

_____ stormwater wetland

_____ storm filter

_____ wetpond (basic or large)

_____ wetvault

_____ Is facility Lined?

If so, what marker is used above

1 RAIN GARDEN

YES IS FACILITY LINED?

1.5' SOIL MATRIX DEPTH

_____ catch basin inserts:
Manufacturer_____

_____ pre-settling pond

_____ pre-settling structure:
Manufacturer_____

YES high flow bypass structure (e.g., flow-splitter catch basin)

YES source controls

_____

Design Information

Water Quality design flow BOAT ACCESS ROAD RAIN GARDEN Q_{WQ} = 0.781 CFS

Water Quality treated volume (sandfilter) N/A

Water Quality storage volume (wetpool) N/A

Facility Summary Sheet Sketch

STORMWATER FACILITY SUMMARY SHEET DDES Permit Number 2
(provide one Stormwater Facility Summary Sheet per *Natural Discharge Location*)

Overview:

Project Name
SOUTH PARK BRIDGE REPLACEMENT Date OCT. 2009

Downstream Drainage Basins

Major Basin Name DUWAMISH RIVER
Immediate Basin Name DUWAMISH RIVER

Flow Control:

Flow Control Facility Name/Number FLOW CONTROL EXEMPT

Facility
Location ORR STREET RAIN GARDEN

If none,

Flow control provided in regional/shared facility (give location) N/A
No flow control required N/A Exemption number N/A

General Facility Information:

Type/Number of detention facilities:
- Ø ponds
- Ø vaults
- Ø tanks

Type/Number of infiltration facilities:
- Ø ponds
- Ø tanks
- Ø trenches

Control Structure Location
NO CONTROL STRUCTURE - SHEET FLOW INTO FACILITY

Type of Control Structure N/A Number of Orifices/Restrictions N/A

Size of Orifice/Restriction:
No. 1 NO ORIFICE
No. 2 N/A
No. 3 N/A
No. 4 N/A

Flow Control Performance Standard EXEMPT

Live Storage Volume 540 CF Depth 1.00 FT Volume Factor of Safety
3,264 ÷ 540 CF = FS OF 6

Number of Acres Served 0.61 ACRES

Number of Lots IN RIGHT-OF-WAY

Dam Safety Regulations (Washington State Department of Ecology)

Reservoir Volume above natural grade Ø
Depth of Reservoir above natural grade Ø

Facility Summary Sheet Sketch

All detention, infiltration and water quality facilities must include a detailed sketch. (11"x17" reduced size plan sheets may be used)

SEE ATTATCHED DRAWINGS

Water Quality:

Type/Number of water quality facilities/BMPs:

_____ biofiltration swale (regular/wet/ or continuous inflow)

_____ combined detention/wetpond (wetpond portion basic or large)

_____ combined detention/wetvault

_____ filter strip

_____ flow dispersion

_____ farm management plan

_____ landscape management plan

_____ oil/water separator (baffle or coalescing plate)

Liner?_____

_____ sand filter (basic or large)

_____ sand filter, linear (basic or large)

_____ sand filter vault (basic or large)

sand bed depth_____ (inches)

_____ stormwater wetland

_____ storm filter

_____ wetpond (basic or large)

_____ wetvault

_____ Is facility Lined?

If so, what marker is used above

1 RAIN GARDEN

YES IS FACILITY LINED?

1.5' SOIL MATRIX DEPTH

_____ catch basin inserts:
Manufacturer_____

_____ pre-settling pond

_____ pre-settling structure:
Manufacturer_____

YES high flow bypass structure (e.g., flow-splitter catch basin)

YES source controls

_____

Design Information

Water Quality design flow ORR ST. RAIN GARDEN Q_{WQ} = 0.072 CFS

Water Quality treated volume (sandfilter) N/A

Water Quality storage volume (wetpool) N/A

Facility Summary Sheet Sketch

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 1 PROJECT OWNER AND PROJECT ENGINEER

Project Owner KING COUNTY
Phone (206) 296-3708
Address 201 S. JACKSON ST.
SEATTLE, WA 98104-3856
Project Engineer JIM RHODES
Company HNTB
Phone (425) 455-3555

Part 2 PROJECT LOCATION AND DESCRIPTION

Project Name SOUTH PARK BRIDGE REPLACEMENT
DDES Permit #
Location Township 24
Range 4E,
Section 32
Site Address BRIDGE # 3179 DUWAMISH RIVER

Part 3 TYPE OF PERMIT APPLICATION

- ☐ Landuse Services Subdivison / Short Subd. / UPD
- ☐ Building Services M/F / Commerical / SFR
- ☒ Clearing and Grading
- ☒ Right-of-Way Use
- ☒ Other BRIDGE REPLACEMENT

Part 4 OTHER REVIEWS AND PERMITS

- ☒ DFW HPA
- ☒ COE 404
- ☐ DOE Dam Safety
- ☒ FEMA Floodplain
- ☐ COE Wetlands
- ☒ Other SEE PERMIT LIST IN REPORT
- ☒ Shoreline Management
- ☒ Structural Rockery/Vault/
- ☒ ESA Section 7

Part 5 PLAN AND REPORT INFORMATION

Technical Information Report		Site Improvement Plan (Engr. Plans)	
Type of Drainage Review (circle):	(Full) / Targeted / Large Site	Type (circle one):	(Full) / Modified / Small Site
Date (include revision dates):	OCT. 2009	Date (include revision dates):	OCT. 2009
Date of Final:		Date of Final:	

Part 6 ADJUSTMENT APPROVALS

Type (circle one): Standard / Complex / Preapplication / Experimental / Blanket

Description: (include conditions in TIR Section 2)

Date of Approval:

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 7 MONITORING REQUIREMENTS

Monitoring Required: (Yes) / No

Start Date: _____

Completion Date: _____

Describe: MONITOR TESC, CONTAMINATED SOILS REMOVAL, CONTAMINATED WATER COLLECTION/TREATMENT, pH, etc... POST PROJECT MAINTENANCE REQ.

Part 8 SITE COMMUNITY AND DRAINAGE BASIN

Community Plan : SOUTH PARK BRIDGE REPLACEMENT

Special District Overlays: MATCH CITY OF SEATTLE AT S. CLOVERDALE ST.

Drainage Basin: DUWAMISH RIVER

Stormwater Requirements: BASIC WATER QUALITY, FLOW CONTROL EXEMPT

Part 9 ONSITE AND ADJACENT SENSITIVE AREAS

- ☒ River/Stream DUWAMISH WATERWAY
- ☐ Lake
- ☐ Wetlands
- ☐ Closed Depression
- ☒ Floodplain LOCAL REGULATED FLOODWAY
- ☒ Other DUWAMISH WATERWAY
- ☒ Steep Slope SCOUR ANALYSIS
- ☒ Erosion Hazard SLOPE PROTECTION
- ☐ Landslide Hazard
- ☐ Coal Mine Hazard
- ☒ Seismic Hazard SEISMIC ANALYSIS
- ☒ Habitat Protection SHORE RESTORATION
- ☐

Part 10 SOILS

Soil Type	Slopes	Erosion Potential
VASHON TILL	FLAT SITE	LITTLE
TILL RIVER BANK	3:1 (ARMORED)	REQ. ARMOR
SAND/CLAY 20' DEEP	NONE	NONE

- ☐ High Groundwater Table (within 5 feet)
- ☒ Other POTENTIALLY CONTAMINATED AREAS
- ☐ Sole Source Aquifer
- ☐ Seeps/Springs

☐ Additional Sheets Attached

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 11 DRAINAGE DESIGN LIMITATIONS	
REFERENCE	LIMITATION / SITE CONSTRAINT
☒ Core 2 – Offsite Analysis	CONNECTIONS TO COMBINED SEWER SYSTEM REQUIRED
☒ Sensitive/Critical Areas	OUTFALL DESIGN PER BA.
☐ SEPA	
☒ Other EROSION CONTROL/DRAINAGE	PER BA RECOMENDATIONS
☒ OUTFALLS MUST BE AT OR ABOVE	EL. 8.64 NAVD 88
☐ Additional Sheets Attached	

Part 12 TIR SUMMARY SHEET	(provide one TIR Summary Sheet per Threshold Discharge Area)
Threshold Discharge Area: (name or description)	NORTH BASIN
Core Requirements (all 8 apply)	
Discharge at Natural Location	Number of Natural Discharge Locations: 1 (DUWAMISH RIVER)
Offsite Analysis	Level: (1) / 2 / 3 dated: DEC 1, 2008
Flow Control (incl. facility summary sheet)	Level: 1 / 2 / 3 or Exemption Number EXEMPT Small Site BMPs
Conveyance System	Spill containment located at: UPSTREAM OF VAULT
Erosion and Sediment Control	ESC Site Supervisor: Contact Phone: After Hours Phone:
Maintenance and Operation	Responsibility: Private / (Public) If Private, Maintenance Log Required: Yes / No
Financial Guarantees and Liability	Provided: Yes / (No)
Water Quality (include facility summary sheet)	Type: (Basic) / Sens. Lake / Enhanced Basicm / Bog or Exemption No. Landscape Management Plan: Yes / No
Special Requirements (as applicable)	
Area Specific Drainage Requirements	Type: CDA / SDO / MDP / BP / LMP / Shared Fac. / (None) Name:
Floodplain/Floodway Delineation	Type: Major / Minor / Exemption / None 100-year Base Flood Elevation (or range): EL. = 12.31 Datum: NAVD 88
Flood Protection Facilities	Describe: HOWARD HANSON DAM REGULATES FLOWS
Source Control (comm./industrial landuse)	Describe landuse: BRIDGE / ROADWAY Describe any structural controls: N/A

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Oil Control	High-use Site: Yes / (No) Treatment BMP: _____ Maintenance Agreement: Yes / No with whom? _____
Other Drainage Structures	
Describe: WET VAULT, DOWN-TURNED ELBOWS (TEE'S)	

Part 13 EROSION AND SEDIMENT CONTROL REQUIREMENTS

MINIMUM ESC REQUIREMENTS DURING CONSTRUCTION		MINIMUM ESC REQUIREMENTS AFTER CONSTRUCTION
☒ Clearing Limits		☒ Stabilize Exposed Surfaces
☒ Cover Measures		☒ Remove and Restore Temporary ESC Facilities
☒ Perimeter Protection		☒ Clean and Remove All Silt and Debris Ensure Operation of Permanent Facilities
☒ Traffic Area Stabilization		☐ Flag Limits of SAO and open space preservation areas
☒ Sediment Retention		☐ Other _____
☒ Surface Water Control		
☒ Dust Control		
☒ Construction Sequence		

Part 14 STORMWATER FACILITY DESCRIPTIONS (Note: Include Facility Summary and Sketch)

Flow Control	Type/Description		Water Quality	Type/Description
☐ Detention	_____		☐ Biofiltration	_____
☐ Infiltration	_____		☒ Wetpool	VAULT
☐ Regional Facility	_____		☐ Media Filtration	_____
☐ Shared Facility	_____		☒ Oil Control	DOWN-TURNED ELBOWS
☐ Small Site BMPs	_____		☒ Spill Control	DOWN-TURNED ELBOWS
☒ Other	EXEMPT		☐ Small Site BMPs	_____
			☐ Other	_____

TECHNICAL INFORMATION REPORT (TIR) WORKSHEET

Part 15 EASEMENTS/TRACTS		Part 16 STRUCTURAL ANALYSIS
☒ Drainage Easement		☐ Cast in Place Vault
☒ Access Easement		☐ Retaining Wall
☐ Native Growth Protection Covenant		☐ Rockery > 4' High
☐ Tract		☐ Structural on Steep Slope
☐ Other		☒ Other PRE-CAST VAULT

Part 17 SIGNATURE OF PROFESSIONAL ENGINEER

I, or a civil engineer under my supervision, have visited the site. Actual site conditions as observed were incorporated into this worksheet and the attached Technical Information Report. To the best of my knowledge the information provided here is accurate.

James A. Rhodes 10/01/2009

Signed/Date

STORMWATER FACILITY SUMMARY SHEET DDES Permit Number 1

(provide one Stormwater Facility Summary Sheet per *Natural Discharge Location*)

Overview:

Project Name SOUTH PARK BRIDGE REPLACEMENT Date JUNE 2009

Downstream Drainage Basins

Major Basin Name DUWAMISH RIVER

Immediate Basin Name DUWAMISH RIVER

Flow Control:

Flow Control Facility Name/Number FLOW CONTROL EXEMPT

Facility Location N/A

If none,

Flow control provided in regional/shared facility (give location) N/A

No flow control required _____ Exemption number _____

General Facility Information:

Type/Number of detention facilities:

- ∅ ponds
- ∅ vaults
- ∅ tanks

Type/Number of infiltration facilities:

- ∅ ponds
- ∅ tanks
- ∅ trenches

Control Structure Location

OFF-LINE VAULT ADJACENT TO NORTHWEST APPROACH SPAN

Type of Control Structure TEE AND ORIFICE Number of Orifices/Restrictions 1

Size of Orifice/Restriction:

No. 1 2-5/8"

No. 2 N/A

No. 3 N/A

No. 4 N/A

Flow Control Performance Standard EXEMPT

Live Storage Volume _____ Depth _____ Volume Factor of Safety _____

Number of Acres Served 0.73 AC TARGETED PGIS

Number of Lots N/A RIGHT OF WAY

Dam Safety Regulations (Washington State Department of Ecology)

Reservoir Volume above natural grade N/A

Depth of Reservoir above natural grade N/A

Facility Summary Sheet Sketch

All detention, infiltration and water quality facilities must include a detailed sketch. (11"x17" reduced size plan sheets may be used)

SEE ATTACHED PLANS

Water Quality:

Type/Number of water quality facilities/BMPs:

_____ biofiltration swale (regular/wet/ or continuous inflow)

_____ combined detention/wetpond (wetpond portion basic or large)

_____ combined detention/wetvault

_____ filter strip

_____ flow dispersion

_____ farm management plan

_____ landscape management plan

_____ oil/water separator (baffle or coalescing plate)

Liner?_____

_____ catch basin inserts:

Manufacturer_____

_____ pre-settling pond

N/A pre-settling structure: DESIGN DOES NOT REQ. 2 CHAMBERS

Manufacturer UTILITY VAULT (UV)

1 high flow bypass structure (e.g., flow-splitter catch basin)

YES source controls

DOWN-TURNED ELBOW

_____ sand filter (basic or large)

_____ sand filter, linear (basic or large)

_____ sand filter vault (basic or large)

sand bed depth_____ (inches)

_____ stormwater wetland

_____ storm filter

_____ wetpond (basic or large)

1 wetvault

NO Is facility Lined? SEALED EXTERNALLY

If so, what marker is used above

Design Information

Water Quality design flow 0.243 CFS

Water Quality treated volume (sandfilter) N/A

Water Quality storage volume (wetpool) 3,435 CF

Facility Summary Sheet Sketch